

POWERMATIC PWBS-14 Bandsaw

The versatility of the bandsaw has made it a favorite of woodworkers for decades. The POWERMATIC PWBS-14 Bandsaw was designed to be rugged, accurate and to bring a surprising array of user-friendly features that make it the most capable machine in its class right out of the box. Because several of our standard features are aftermarket, additional cost add-ons on other bandsaws in this class, the POWERMATIC PWBS-14 Bandsaw is one of the best bang-for-your-buck values on the market.



Solid Backbone

The POWERMATIC PWBS-14 Bandsaw is built around a pair of huge iron castings that provide an extraordinarily rigid backbone. The lower box-shaped iron casting surrounds the drive wheel and provides a super rigid base on which the rest of the saw is built. The upper casting is equally oversized and designed with flex-fighting rounded corners and an upswept arm that effectively resists the pressures of tensioning $\frac{3}{4}$ "-wide blades properly.



A huge iron casting provides a solid foundation that keeps the PWBS-14 rigid and vibration free.

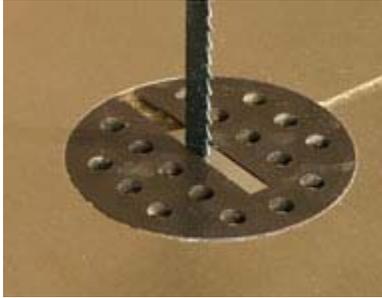
The heavy-gauge steel base cabinet adds to the POWERMATIC PWBS-14 Bandsaw stability and provides a solid, vibration-absorbing base for the motor. Because dust collection does not pass through the base cabinet, its interior remains virtually dust free, reducing routine maintenance while enhancing the already long life of the motor and drive belt. Brackets on the base cabinet exterior provide on-board storage for the miter gauge, fence and extra blades.

Dust Collection

Rather than routing dust down through the base cabinet we form a port for a 4"-diameter dust hose in the lower cast iron section of the POWERMATIC PWBS-14 Bandsaw. Placing the port where the dust is created greatly improves its effectiveness and eliminates the leaks found in through-the-cabinet systems. That makes even marginal dust collectors perform surprisingly well.



A 4"-diameter port is cast into the lower housing directly below the blade for super-effective dust evacuation.



A perforated insert surrounds the blade with dust collection ports.

To help capture dust from above the table we developed a special insert plate with a grid of through holes. This creates a vacuum source surrounding the blade at the table surface to catch much of the dust other bandsaws leave on the surface.

We also added a dust brush that helps keep the lower drive wheel tire clean. This simple device limits the amount of dust that transfers on the blade to the upper wheel tire and cabinet. The result is cleaner, cooler-running blades and less dust contamination of the drive wheel tires.

To help keep the cut line clearly visible we added an integral air pump that supplies pressurized air to a nozzle attached to the upper blade guide. The air nozzle can be adjusted to keep dust from obscuring cut lines to allow you to work more accurately with fewer stops.

Power and Drive

The POWERMATIC PWBS-14 Bandsaw is powered by a 1 1/2HP TEFC (totally enclosed fan cooled) industrial-style motor that comes wired for 115V operation but can be converted to 230V. Because POWERMATIC motors are rated at the continuous duty horsepower they produce and not a “peak” or “developed” number, blade speed remains stable and effective.

The motor power is delivered through a set of precision-machined multi-groove pulleys, driven by a Poly-V belt, known for its smooth, efficient transmission of power with very little temperature buildup. These qualities also give Poly V-belts a very long life.

Both wheels ride on power-saving, high-quality ball bearings that keep them tracking straight today and for many years to come.

The substantial motor power of the POWERMATIC PWBS-14 Bandsaw allows using cast iron drive wheels rather than aluminum or cheap pot metals. The additional weight of cast iron wheels absorbs blade-generated vibrations and imparts a flywheel effect that stabilizes blade speed when the cutting gets tough.



The motor (left) is pre-installed in the enclosed base and sends its power through machined pulleys and an ultra-reliable Poly V-belt. The 9-spoke cast iron drive wheels (right) are fully machined, painted and fitted with tires before being dynamically balanced.

Both cast iron drive wheels are fully machined, painted and fitted with high quality tires and then dynamically balanced to insure smooth operation. The tires have a special crown shape that helps stabilize blade tracking. The drive wheels turn on high-quality ball bearings for a long, smooth running life.

An easy-to-use pushbutton on/off switch is mounted on the frame within easy reach from the normal operating position. To ease assembly, the electrical connections between the bandsaw itself and the closed stand involve a single three-pole plug.

Blade Tensioning



A Carter Quick Release lever (left) is standard on the Powermatic PWBS-14 and makes fully relaxing blade tension quick and easy. The Quick Release lever works independently of the blade tensioning block (right) so the setting is not lost between uses.

For bandsaw blades to perform correctly they must be properly tensioned. The POWERMATIC PWBS-14 Bandsaw system allows precise blade tensioning of the blade according to its characteristics. Handy blade width markings on the tensioning block makes adjusting the POWERMATIC PWBS-14 Bandsaw for blade widths from 1/8" to 3/4" fast and simple. The infinite adjusting system also lets you dial in the correct tension for specialty blades that may require non-standard tension settings.

When not in use the tremendous forces of a tensioned blade will shorten the life of the blade itself, drive wheel tires and bearings.

The POWERMATIC PWBS-14 Bandsaw comes with the legendary Carter™ quick release handle assembly that features three positions; full tension, relaxed tension and full release. You can move the Carter™ between all three positions without losing the tension setting. Use the relaxed tension position when the saw is not being used but when the POWERMATIC PWBS-14 Bandsaw is needed again, move the quick release lever into the operating position and the original blade tension is restored.

Roller Guides

The most popular aftermarket bandsaw accessory is roller bearing guides but the POWERMATIC PWBS-14 Bandsaw includes full dual bearing upper and lower guides as standard equipment and takes this concept a step further.



Full roller guides upper (left) and lower (right) are standard equipment. Both feature easy-to-adjust dials for making precise, tool-free adjustments of the side and thrust bearings.

Easy to use finger-operated dials make ultra-precise positioning of the side and thrust bearings fast, simple and tool free. Adjusting the side clearances is also done quickly using a 3mm hex wrench.

Roller blade guides eliminate substantial amounts of friction and the buildup of heat in the blade generated by the friction of rub blocks. That allows roller bearing guides to be set closer to the blade for more control and do not require frequent re-adjusting to compensate for friction-related wear.

Table



The combination of tilting and stationary cast iron table sections gives the PWBS-14 one of the largest work surfaces in the industry! The function and feature a rubber overmold surface for comfort and enhanced grip. A scale on the operator-side trunnion makes setting precise table angles easy.

The POWERMATIC PWBS-14 Bandsaw features a large two-piece cast iron table with a finely ground surface and a standard $\frac{3}{4}$ "-wide by $\frac{3}{8}$ "-deep t-shaped miter slot. A $5\frac{3}{8}$ "-deep stationary table extension adds to the primary 15" by 15" table for an overall useable surface of $20\frac{7}{8}$ " by 15" to provide plenty of support for large projects.

The primary table tilts 45-degrees to the right and 10-degrees to the left. A pair of large diameter knobs secures the tilt function and feature a rubber overmold surface for comfort and enhanced grip. A scale on the operator-side trunnion makes setting precise table angles easy.

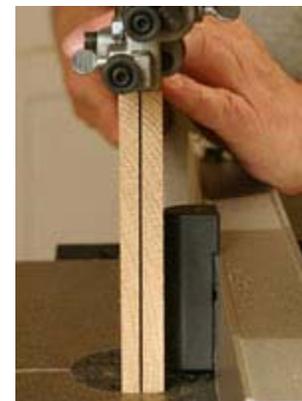
The POWERMATIC PWBS-14 Bandsaw table surface is 44" above the floor, which eliminates stooping to make time-intensive cutting jobs less tiring. With a full 6" resaw capacity below the upper guide and a generous $13\frac{1}{2}$ " blade-to-frame distance, you will find this to be an extremely capable bandsaw.

Versatile Fence

Though often considered an extra-cost accessory, the POWERMATIC PWBS-14 Bandsaw comes with a full-featured t-square fence. For maximum stability during the largest of cutting tasks, the POWERMATIC PWBS-14 Bandsaw fence locks onto its guide rails at both sides of the table with the flip of the single locking lever.

The large $19\frac{3}{4}$ "-long by $2\frac{1}{2}$ "-tall extruded aluminum fence rail provides plenty of surface for guiding even large-sized projects accurately. With flat faces on both sides, this fence can be used on either side of the blade plus allows clamping shop-made jigs in place simple.

We also include a 3"-tall resaw post that attaches to the fence with a simple finger knob. The resaw post can be positioned as needed to the blade width being used for maximum accuracy and ease of use. A dual range scale on the guide rail shows blade-to-fence cut widths and blade-to-resaw post widths!

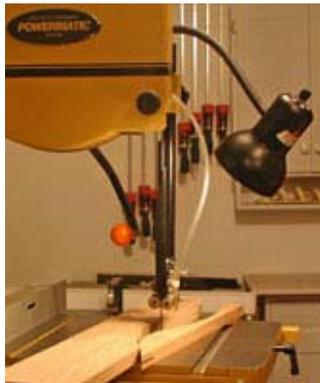


The full-featured T-square style fence (left) locks on both ends for maximum stability. The resaw post (right) is included and attaches to the fence with a finger knob.

Miter Gauge

A full-featured miter gauge is included, sized specifically for use with the POWERMATIC PWBS-14 Bandsaw. The miter gauge fence can be locked at any setting up to 60–degrees to the left or right. The flat, machined aluminum fence face features screw slots for attaching your shop-made faces or jigs for specialty jobs.

Work Light



We built-in a handy work light on a flexible shaft to make seeing what you are doing a little easier.

We also added a handy work light, mounted on a flex shaft that allows positioning it where needed to best illuminate the work. The work light uses a 40-watt bulb that provides plenty of light on the table without causing glares or introducing unnecessary heat. The work light also has its own switch so it can be turned on only when needed independently of the POWERMATIC PWBS-14 Bandsaw motor.

Accessories

Mobility

Being able to move larger machines to the best open area within modern shops is important to safety and productivity. The #2042377 mobile base has been specifically designed to fit the base cabinet of the POWERMATIC PWBS-14 Bandsaw precisely and to easily handle weight. A full swivel caster on one end makes guiding the POWERMATIC PWBS-14 Bandsaw easy, even through tight areas.

The caster wheel has a step-on locking lever while both fixed wheels have knobs that when screwed in, firmly lock those wheels. The result is a very stable platform when locked down for use.



If being able to move your machines is a priority, our fully-welded mobile base rolls smoothly yet all three wheels lock for maximum stability.

Extended Resaw Capacity

When large capacity resawing is required, the #1791217, 6" riser kit increases the maximum clearance between the upper guides and the table surface to 12". The riser kit supplies all of the parts needed to make the conversion including the 6" block, retaining bolt, extended upper guide post, expandable upper blade guard and even a 3/8"-wide general purpose 105" blade to get you started. A single instruction sheet walks you through the process of installing the riser kit.



With the addition of our riser block kit, the PWBS-14 resaw capacity increases to 12" from the upper guide to the table surface!